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#### **ABSTRACT**

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To test the assumption that relationships exist between student performance and certain measurable school, community and student characteristics, confidential questionnaires were given to students, teachers, and administrators in secondary and elementary schools across the state. This section of the Phase II Findings describes (1) the educational correlates obtained; (2) the procedures used to group them into meaningful scales and indices; (3) the distributions of Pennsylvania schools on these indices; and (4) the interrelationships among these educational correlates. See also ED 051 290-291, 051 294, 053 159, and TM 000 977 for other documents on Educational Quality Assessment. (AG)

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## Educational Quality Phase II Findings Assessment

Section 5

Pupil, School and Community Conditions Definition and Measurement

by Nolan F. Russell, Research Associate Bureau of Educational Quality Assessment

Pennsylvania Department of Education August 1971



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William S. Donaldson, The Pennsylvania State University, prepared the data for analysis and supervised the computer runs.



#### **Foreword**

The principal aims of the Bureau of Educational Quality Assessment are to offer schools in the Commonwealth valid and reliable information pertaining to school outcomes and to identify some of the condition correlates of these outcomes. The Pennsylvania Plan is built on the assumption that relationships exist between student performance and certain measurable school, community and student characteristics. To test this assumption confidential questionnaires were given to students, teachers and administrators in 73 secondary and 355 elementary schools across the state. These questionnaires were also used to give a clearer picture of how these characteristics are distributed throughout the Commonwealth's school system.

The main thrust of this section is descriptive rather than interpretive. Specifically, this section describes (a) the educational correlates obtained, (b) the procedures used to group them into meaningful scales and indices, (c) the distributions of Pennsylvania schools on these indices and (d) the interrelationships among these educational correlates.



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#### The Nature of Educational Correlates

The numbers dealt with in the compilation and analysis of variables in engineering and the natural sciences tend to be quite different from those dealt with in the field of education. In the former, numbers measure specific properties of objects that typically are readily observable. In educational studies, however, many of the variables are conceptual rather than tangible and are much more difficult to pin down.

Most of the measures used in education can be described more accurately as indicators rather than direct measures. Consequently, there is often a certain amount of disagreement among educators and researchers about the actual meaning conveyed by a score on any indicator. For example, one might try to get an indication of a person's educational level by asking him how many years of formal education he has completed. However, the index number obtained might say very little about how well educated the person really is.

Another characteristic of educational correlates is that they tend to be collected by proxy. That is, one might obtain the educational level of a child's parent by asking the child. The accuracy of the index score so derived is highly dependent on the correctness of the child's report.

Also, the many correlates of educational outcomes tend to be highly related to one another. When one measures the amount of experience a teacher has had in the classroom, one is also indirectly measuring the teacher's salary, age and, to some extent, aspiration to remain a teacher. Because many of the variables are in fact only indicators, and because they tend to be highly related to one another, one should be careful not to immediately attach a great deal of importance to a relationship between a single indicator and a particular school outcome.

The existence of a significantly positive correlation between the school's citizenship score and the age of the teachers within the school should not lead to the decision to hire all older teachers. However, if it is known that this relationship still holds true when other variables within the school are held constant, attention could be directed toward investigating what older teachers do differently in the classroom.

With these considerations in mind the Bureau collected data on a large number of potential correlates of school outcomes at both the secondary and elementary levels.



#### **Collecting Educational Correlate Data**

In October of 1969, 20,000 5th grade pupils and 17,000 11th grade students in 355 elementary schools and 73 high schools across Pennsylvania participated in Phase II of Educational Quality Assessment. Students provided information about the occupation and education of their parents, the types of communities in which they were living and the availability of school resources. Concurrently, teachers and administrators in the same schools were queried. The instructional staff sample was composed of 1,077 elementary and 852 secondary teachers. These teachers responded to a 76-item questionnaire (Section 2, Appendix B) designed to measure areas such as job satisfaction, career aspirations and innovativeness in the classroom. In addition to the information obtained from the teacher questionnaire, the Professional Personnel Record, developed by the Bureau of Statistics, was used as a data source for teacher experience, teacher education, teacher salary and teacher sex.

A school information form (Section 2, Appendix A) was sent to school administrators to obtain data on the community and on various school programs. School district financial data were collected from other bureaus in the Department of Education, primarily from the Bureau of Statistics.

#### Transforming the Raw Data

The majority of the original data were submitted to the Bureau in the form of specific responses to items on the School Information Form, the Teacher Questionnaire and the Pennsylvania Questionnaire. The process of data analysis began by grouping items into sets of meaningful categories. Response alternatives to the items within the categories were then assigned weights, either large or small, depending upon whether the alternatives indicated the presence or absence of the characteristics the category set was designed to measure.

The derived indices fall into three major classes: school and community characteristics, instructional staff characteristics and pupil characteristics.

An index score on each of the condition variable scales was computed for each participating school. Since the primary unit of analysis in the Pennsylvania Plan (see Section 1) is the school, no subsets of students, teachers or administrators within the sample schools were identified.



#### **School and Community Characteristics**

School and community information was obtained from Bureau of Statistics data regarding school financial resources and from the school information form. In addition, items from the Pennsylvania Student Questionnaire which indicated the degree of accessibility to these school resources were used. School and community characteristics were classified as program resources, financial resources and demographic factors.

Program resources are defined as staff/pupil, books/pupil and guidance counselor/pupil ratios; the degree of student-reported accessibility to the guidance counselor and to the school library; and the degree of school-reported usage of innovative practices.

Financial resources are defined as the per pupil state instructional subsidy received by the district, the instructional expense per pupil in the district and the local tax effort of the school district.

Demographic school characteristics are defined as school size, the degree of interracial exposure present in the school building, school holding power and the percentage of graduates continuing their education. Also included are measures of the type of community and the housing available in the community.

Table 1 lists the computer codes for each of the school and community characteristics, the measures used to obtain the data, the weighting procedures and index descriptions.



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Table 1
SCHOOL AND COMMUNITY INDICES

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	CLASS OF CHARACTER. ISTIC	VARIABLE NAME	MEASURE	WEIGHTING	INDEX DESCRIPTION
		STAFFP (Staff: pupil ratio)	The number of personnel who spend at least one-half their time in instructional activity was divided by the total number of students in the school.		A higher value indicates more instructional personnel per pupil.
	ν.	BOOKSP (Books: pupil ratio)	The number of library books available for student checkout was divided by the total number of pupils in the school.		A higher value indicates more library books available for each pupil.
9	Program Resources	INNOVATE (School innovation)	The school administrator reported 5 the extent to which his school em- 4 ployed 12+ relatively new educa- 3 tional practices (e.g. individual 2 study, nongraded classes, instructional TV).	= Use regularly = Use occasionally = Considered trying = Don't agree = Never tried	A higher score on this index indicates the school uses several innovative practices regularly and/or many of the practices at least occasionally.
		LIBRARY (Accessibility of library)	Students were asked how often they 5 were able to use the school library.	= Often as needed = Frequently = Several days a week = Only when class is scheduled = No library in school	A higher score on this index indicates that the school offers freer accessibility to its library resources.
		COUNSEL* (Access!hility of counselors)	Eleventh grade students were asked 5 how often they were able to talk to 4 the school guidance counselor about 3 a concern.	<ul> <li>Often as needed</li> <li>Frequently</li> <li>Only to make class schedules</li> <li>Only in group guidance session</li> <li>No guidance counselor</li> </ul>	A higher score on this index indicates that the school offers freer access to its guidance staff.

\* For secondary schools only.

## SCHOOL AND COMMUNITY INDICES (continued) Table 1 (continued)

E MEASURE WEIGHTING DESCRIPTION	The number of secondary school personnel who devoted at least one- half their time to guidance activities was divided by the total number of students within the secondary school. For elementary schools, the admin- Elementary istrator reported whether or not a 0 = No counselor guidance counselor is assigned to the 1 = Counselor(s) school on a regular basis.	The state instructional subsidy paid Expressed in whole dollars.  The state instructional subsidy paid Expressed in whole dollars.  to the school district was divided by the Weighted Average Daily Membership of the district. All schools participating from district were assigned this score.	The instructional expenses of the Expressed in whole dollars.  A higher value indicates that the district series of the Average school of interest is in a district which expends relatively more funds all schools participating from district were assigned this score.	Budgeted school taxes for the dis- Expressed in mills.  A higher value indicates that the trict were divided by the market values. All schools participating to from district were assigned this
		The state to the schuthe Weigl bership of participati	&_	ted were
VARIABLE	GUIDANCE (Counselor: pupil ratio)	SUBSIDY (School subsidy per WADM)	INSEXADM (Instructional expenses per ADM)	EFFORT (Tax Effort Index)
CLASS OF CHARACTER- ISTIC	Program Resources	Financial Resources		
	10	)		5

\* For secondary schools only.

Table 1 (continued)
SCHOOL AND COMMUNITY INDICES (continued)

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Ш					
	CLASS OF CHARACTER- ISTIC	VARIABLE NAME	MEASURE.	WEIGHTING	INDEX DESCRIPTION
<u> </u>		ENROLL (School Enrollment)	The administrator reported the total school enrollment as of October 1 of a given year.		The number indicates the building enrollment.
17	Demographic Characteristics	LOCATION (Predicted achievement index by location)	Secondary students reported the type of community in which they 7 were then living.  Due to substantial misinterpretation of this item by 5th grade pupils in 5 the normative study, the EQA staff 4 assigned scores to elementary 3 schools hased upon knowledge of 2 size and location of the communities from which the school drew its students. In subsequent school studies, elementary pupils were aided by the teacher in reporting their community type.	= Suburb of city (over 500,000) = Suburb of city (100,000-500,000) = Suburb of city (10,000-100,000) = Inside city (10,000-100,000) = Inside city (100,000-500,000) = Inside city over 500,000 = Deen country or farming community	A higher score on this index indicates that the school is drawing a larger proportion of its students from suburban rather than rural or urban areas.
		INTERRAC (Interracial exposure)	Students reported whether or not 2 they came in contact with students 1 of a race different from their own in their classes or school activities.	= Yes = No	A higher value on this index indicates greater interracial exposure in school.
		HOUSING (Types of residences in school's community)	The school administrator reported 6 the percentage of various types of 5 housing units in the area served by 4 the school.	<ul> <li>Expensive private bomes</li> <li>High-rental apartments</li> <li>Moderate-priced homes</li> <li>Moderate-rental apartments</li> <li>Low-cost homes</li> <li>Low-rental apartments</li> </ul>	A higher value on this index indicates that the school serves an area that has a relatively larger proportion of expensive private homes and/or apartments.
#					

Table 1 (continued)
SCHOOL AND COMMUNITY INDICES (continued)

CLASS OF CHARACTER. ISTIC	VARIABLE NAME	MEASURE	WEIGHTING	INDEX DESCRIPTION
	HOLDING (Holding power)	Holding power was computed by the formula: (Graduating class + transfers - new students) ÷ (enrollment of same class beginning 10th grade).	The term transfers refers to those students who have left the sample school after beginning 10th grade to attend another school.	Holding power was computed by the The term transfers refers to those A higher value indicates a relatively formula:  (Graduating class + transfers - new school after beginning 10th grade to students) ÷ (enrollment of same attend another school.  class beginning 10th grade).
Demographic Characteristics	POSTGRAD (Continuing education)	The average percentage for two successive years of graduates who continued their education in college, vocational, technical, nursing, or business school was obtained for each sample school from the Pennsylvania Secondary School Report.		A higher value indicates a higher percentage of high school graduates continuing their formal education.

#### **Instructional Staff Characteristics**

The primary source of instructional staff data was the teacher questionnaire. Other teacher information such as salary, years of experience and amount of formal education was obtained from the Professional Personnel Record compiled by the Bureau of Statistics. The scales developed from the instructional staff data were divided into background, demographic and attitudinal characteristics.

Background characteristics measured are the educational level of the teacher's mother, the occupational level of the teacher's father, the location of the high school from which the teacher graduated, the location of the community in which the teacher spent most of his or her life, the level of the teacher's training and the type of college attended.

Demographic characteristics include teacher age, experience, sex and salary information.

Attitudinal characteristics include measures of teacher satisfaction, innovativeness, perception of actual and ideal ways to gain professional recognition, career aspirations and the real vs. the ideal influence of educational policy-making groups.

Table 2 lists the computer codes for each of the instructional staff characteristics, the measures used to obtain the data, the weighting procedures and index descriptions.



Table 2
INSTRUCTIONAL STAFF INDICES

INDEX DESCRIPTION	ofes. A higher value on this index indicates that the mothers of the school's or instructional staff have attained a higher level of formal education.	cates that the school's instructional staff comes from backgrounds in which the family's principal wage earner tended to be professional or white-collar workers as opposed to semi-skilled or unskilled.	area A higher value on this index inditown cates that the school draws its instructional staff from the local area U. S. as opposed to other states or countries.
WEIGHTING	9 = Completed Ph.D. or professional degree 8 = Some work toward Ph.D. or professional degree 7 = Masters degree 6 = Graduated, college 5 = Some post-high school 4 = Graduated, high school 3 = Some secondary 2 = Elementary 1 = No formal education	9 = Professional; doctor, lawyer 8 = Accountant, or manager 7 = Teacher 6 = Owner of small business 5 = White-collar 4 = Farmer 3 = Skilled worker 2 = Semi-skilled worker 1 = Unskilled	5 = This town or immediate area 4 = In state but outside this town 3 = In another state 2 = In Puerto Rico or other U. S. possession 1 = In another country
MEASURE	Sample teachers reported the highest level of formal education attained by their mother or female guardian.	The sample teachers reported the occupational category of their father or principal wage earner while they were growing up.	Sample teachers reported where they graduated from high school.
VARIABLE	TMEDUC (Educational level of icacher's mother)	TFOCC (Occupational level of teacher's father)	TLOCALE (Teacher locale)
CLASS OF CHARACTER- ISTIC	Background	1	

\* Collected for all teachers in the school.

Table 2 (continued)
INSTRUCTIONAL STAFF INDICES (continued)

,	CLASS OF CHARACTER- ISTIC	VARIABLE NAME	MEASURE	WEIGHTING	INDEX DESCRIPTION
		TSTABL (Teacher stability)	Sample teachers reported the area in which they spent most of their lives.	teachers reported the area Response alternatives and respections spent most of their tive weightings were identical to TLOCALE.	Response alternatives and respec. A higher value on this index inditive weightings were identical to cates that the school's instructional staff have spent most their lives in the immediate area as opposed to other states or countries.
	Background	TCOLLEGE (Teacher's college)	Sample teachers reported whether or not they had earned a college degree and the type of college from which they graduated.	3 = Liberal arts college or university 2 = State college 1 = No degree	teachers reported whether or 3 = Liberal arts college or univer- A higher score on this index indirindes and a college design and a college from 2 = State college grees and are more likely to have attended a liberal arts college or university than a state college.
15		TEDUC* (Teacher's education)	The level of training of all teachers was obtained from the Professional Personnel Record.	9 = Doctor's degree 8 = Master's degree plus 2 years 7 = Master's degree plus 1 year 6 = Master's degree 5 = Bachelor's degree 4 = Bachelor's degree	A higher score on this index indicates that the school's instructional staff has a higher level of formal education.
C. C				3 = Three years of college 2 = Two years of college 1 = One year of college 0 = No college	

<sup>\*</sup> Collected for all teachers in the school.

Table 2 (continued)

# INSTRUCTIONAL STAFF INDICES (continued)

CLASS OF CHARACTER- ISTIC	F VARIABLE NAME	MEASURE	WEIGHTING	INDEX DESCRIPTION
	TAGE (Teacher's age)	Each sample teacher indicated his 9 age by checking one of nine 5-year 8 age categories.	= 60 or over = 55.59 = 50.54 = 45.49 = 40.44 = 35.39 = 30.34 = 25.29	This index reflects the mean age, by categories, of a school's instructional staff.
Demographic	TSEX* (Teacher sex)	The sex of each teacher was obtained 2 as reported in the Professional Per. 1 sonnel Record.	== Female == Male	A bigher value on this index represents a higher proportion of female teachers within the school.
	TEXPER* (Teacher experience)	The total years of service in education was obtained for each teacher from the Professional Personnel Record.		This number represents the mean educational experience, in years, of the school's instructional staff.
	TPPOS (Teacher present position)	Each sample teacher reported the 8 number of years he had completed 7 in his present position.	= 20 or more years = 16-20 years = 11-15 years = 6-10 years = 3-5 years = 2 years = 1 year = Less than 1 year	This index reflects the degree to wbich a school's instructional staff have remained in their present positions.
	TSALARY* (Teacher salary)	The salary for each teacher was obtained from the Professional Personnel Record.		This value represents the mean salary for a school's instructional staff.

\* Collected for all teachers in the school.

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# Table 2 (continued) INSTRUCTIONAL STAFF INDICES (continued)

on this index ind degree of job sati school's instruction	this index in icate which relatively is som practices as te sample teachers.	A higher value on this index indicates that the instructional staff perceives professional recognition to be achieved through personal relationships as opposed to quality and quantity of work completed.
A higher value cates a greater faction of the staff.	The value on the extent to novative classre employed by th	
5 = Almost always 4 = Frequently 3 = Sometimes 2 = Infrequently 1 = Almost never	5 = Use regularly 4 = Use cutsionally 3 = Considered its use 2 = Never use 1 = Don't agree with practice	7 = Rapport with central office 6 = Rapport with immediate supervisor 5 = Formal education 4 = Seniority 3 = Imaginativeness 2 = Dependability 1 = Quality and quantity of work
Each sample teacher responded to a 6-item questionnaire which was scaled to reflect the degree of his satisfaction with his role in the school.  (Example: "I find my job exciting and rewarding.")	Each sample teacher reported the extent to which he employed 11 "innovative" classroom practices (c.g., pupil participation in lesson planning).	From a list of 7 characteristics, the sample teacher chose the one he felt was actually most important in gaining professional recognition in his school district.
TSATIS (Teacher satisfaction)	TCLPRACT (Teacher classroom practices)	REACTL (Perception of actual characteristics influencing professional recognition)
	Attitudinal	·
	Each sample teacher responded to 5 = Almost always  a 6-item questionnaire which was 4 = Frequently ction) scaled to reflect the degree of his 3 = Sometimes satisfaction with his role in the 2 = Infrequently school.  (Example: "I find my job exciting and rewarding.")	TSATIS  Each sample teacher responded to 5 = Almost always  (Teacher scaled to reflect the degree of his 3 = Sometimes satisfaction with his role in the 2 = Infrequently school.  (Example: "I find my job exciting and rewarding.")  TCLPRACT  Each sample teacher reported the 5 = Use regularly extent to which he employed 11 "in- 4 = Use cutasionally classroom practices (e.g., 3 = Considered its use practices) pupil participation in lesson plan- 1 = Don't agree with practice

<sup>\*</sup> Collected for all teachers in the school.

#### **Student Characteristics**

Student background, attitudinal and demographic characteristics were reported on the Pennsylvania Questionnaire. Background characteristics include the occupational and educational levels of the student's parents. Teachers completed this information for 5th graders; 11th graders completed this information themselves.

Attitudinal characteristics were collected for 11th grade students only. Attitudinal characteristics are defined by measures of school mores, personal values, occupational desire and occupational expectation.

Demographic characteristics are defined as sex, race, level of previous learning and attendance.

Table 3 lists the computer codes for each of the student characteristics, the measures used to obtain the data, the weighting procedures and index descriptions.

The interrelationships among the condition variables presented in Tables 1, 2 and 3 are presented later in this section. Section 6 will deal with the interrelationships between these surrounding conditions and school performance data in the ten goal areas. In both cases, it is strongly suggested that the reader become familiar with exactly how information on each variable was collected and how this information was then scaled.



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Table 3
STUDENT INDICES

	indidraw dents sare sare	draws dents rking e em- and/ duca-	ge of
NO	A higher value on this index indicates that the school tends to draw a large proportion of its students from homes where the fathers are employed in higher-paying jobs requiring a higher educational level.	A school high on this index draws a greater proportion of its students from homes in which the working mothers are more likely to be employed in higher-paying jobs and/ or jobs requiring a higher educational level.	This score reflects the percentage of working mothers.
INDEX	e on this school triin of there the igher-pa	on this ortion of which ore like ore like its ing a hing a	cts the
DES	hat the proportion is a pigh	ool high ter propional tomes in 18 are in in high s requii	This score reflects working mothers.
	A bigl cates t a large from lemploy quiring	A school his greater profess are mothers are ployed in low ions rectional level.	This se workin
	The occupational categories were weighted from 0 to 96 according to a combination of education needed to secure the occupation and income derived from the occupation.	ainfully house- nsioned, lculated Weights	
ING	categorie 96 accor lucation ion and cupation	were g luding hool, per n was ca thool.	
WEIGHTING	tional on to bu of ed occupal	ers who identical	
	The occupational categories weighted from 0 to 96 accord a combination of education to secure the occupation and i derived from the occupation.	Using mothers who were gainfully employed (i.e., excluding housewives, mothers in school, pensioned, or deceased), a mean was calculated for each sample school. Weights applied were identical to those used in FOCC.	
	e. The weigh s. a co	e. Usin memples, wive or de for appli	• • • • • • • • • • • • • • • • • • •
	The sample 11th grade student re. The occupational categories were A higher value on this index indiported his father's occupation from weighted from 0 to 96 according to cates that the school tends to draw a list of 148 possible occupations, a combination of education needed a large proportion of its students On the elementary level the stu- to secure the occupation and income from homes where the fathers are dent's teacher completed this item. derived from the occupation, employed in higher-paying jobs requiring a higher educational level.	The sample 11th grade student recogning mothers who were gainfully A school high on this index draws ported his mother's occupation from employed (i.e., excluding house a greater proportion of its students a list of 148 possible occupations. wives, mothers in school, pensioned, from homes in which the working on the elementary level the students are more likely to be emdent's teacher completed this item. for each sample school. Weights ployed in higher-paying jobs and applied were identical to those used or jobs requiring a higher educational level.	From the sample stricent's report of MOCC, the percentage of working mothers was calculated.
MEASURE	grade si occupa sible oc ry level npleted	grade sistemants occupasible occupary level	stricent's ntage of lated.
MEAS	le 11th father's 148 pos l'ementa ther con	le 11th mother' 148 pos llementa ther con	sample stude: he percentage was calculated
	The samp ported his a list of On the e	ne samp rted his list of n the e	From the MOCC, the mothers w
ធ			
VARIABLE NAME	OCC ather's occupation)	MOCC (Mother's occupation)	PCTMW (Percentage of mothers working)
	FOCC (Father's occupati	MOC: (Moti	PCTN (Perc of 1
SS OF ACTER. TIC		Background	
CLASS OF CHARACTER- ISTIC		Backg	
		20	

\* For secondary schools only.

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Table 3 (continued)
STUDENT INDICES (continued)

 CLASS OF CHARACTER- ISTIC	VARIABLE NAME	MEASURE	WEIGHTING	INDEX DESCRIPTION
	FAMSES (Family socioeconomic status)	The family socioeconomic status for a school was calculated by the formula: (Σ FOCC for n, fathers + Σ ΜΟCC for n, mothers) greater of n, and n,		This index is a composite of MOCC and FOCC levels of the school.
 Background	MEDUC (Mother's education)	The sample 11th grade student reported the highest level of formal education attained by his mother or female guardian. On the elementary level the student's teacher completed this item.	ple 11th grade student re. The same weighting system was used A higher value on this index indise highest level of formal as for TMEDUC.  stained by his mother or Due to substantial scoring errors from homes in which the mothers ardian. On the elementary this variable was dropped for grade have attained a higher average level student's teacher completed 11.	A higher value on this index indicates that the school draws students from homes in which the mothers have attained a higher average level of formal education.
	FEDUC (Father's education)	The student reported the highest level of formal education attained by his father or male guardian. On the elementary level the student's teacher completed this item.	lent: reported the highest The same weighting system was used formal education attained as for TMEDUC. Due to substantial ther or male guardian. On scoring errors this variable was entary level the student's dropped for grade 11.	A higher value on this index indicates that the school draws students from homes in which the fathers have attained a higher average level of formal education.

<sup>\*</sup> For secondary schools only.

Table 3 (continued)

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## STUDENT INDICES (continued)

INDEX DESCRIPTION	A higher store on this index indicates that students perceive intellectual factors as relatively more important than social factors or athletics in determining a boy's popularity.	A higher score on this index indicates the student body of the school tends to perceive intellectual factors as relatively more important than social factors in determining a girl's popularity.	A higher score on this index indicates that the members of the student body tend to perceive intellectual pursuits as more productive in gaining peer group recognition than social status factors.	This index indicates the mean oc- cupational level the students desire to attain.	This index indicates the mean oc- cupational level the students expect to attain.
<u>a</u>	A higher see cates that see lectual facto important that athletics in dularity.	A higher sc cates the sert tends to per as relatively social factor popularity.	A higher score on cates that the mem dent body tend to tual pursuits as mo gaining peer group social status factors.		Į.
WEIGHTING	<ul> <li>5 = Being bright, well-informed, interesting</li> <li>4 = Doing well in school</li> <li>3 = Being attractive, fun</li> <li>2 = Being athletic star</li> <li>1 = Coming from the right family</li> </ul>	5 = Being bright, well-informed, interesting 4 = Doing well in school 3 = Being attractive, fun 2 = Being a cheerleader 1 = Coming from the right family	5 = Being Sright, well-informed, A higher score on this index indiniteresting 4 = Doing well in school 3 = Being attractive, fun tall pursuits as more productive in social status factors.  1 = Coming from the right family	The weightings employed were identical to those used for FOCC.	The weightings were identical to those used for FOCC.
MEASURE	The sample student reported, from a list of 5 qualities, his perception of the single best way for a boy to be important or looked up to by other students in his school.	The sample student reported, from a list of 5 qualities, his perception of the single best way for a girl to be important or looked up to by other students in his school.	From a list of the same 5 qualities as MORESB and MORESC, the sample student reported that quality which was most important to him personally regardless of what others may choose.	From the same list of 148 occupations used for FOCC and MOCC, the sample student reported the occupation he desires to follow.	From the same list as OCDESIRE, the sample student reported the occupation he expects to follow.
VARIABLE NAME	MORESB* (Mores—Boys)	MORESG* (Mores—Girls)	VALUES* (Personal values)	OCDESIRE* (Occupational desires)	OCEXPECT* (Occupational expectation)
CLASS OF CHARACTER- ISTIC			Attitudinal		

\* For secondary schoole only.

Table 3 (continued)
STUDENT INDICES (continued)

CLASS OF CHARACTER- ISTIC	VARIABLE NAME	MEASURE	WEIGHTING	INDEX DESCRIPTION
	SEX (Sex of students)	The sample student reported his or 2 = Female her sex.	2 = Female $1 = Male$	A higher value on this index represents a higher proportion of female students.
	RACE (Predicted achievement index by race)	From a list of six ethnic and racial categories each sample student chose the category that best described him.	6 = Oriental 5 = White 4 = American Indian 3 = Puerto Rican 2 = Black 1 = Other	This variable was scaled in such a way that the index is a predicted-achievement index by racial composition. Weights were assigned on the basis of the groups' rank-order achieved scores as reported by Coleman.
Demographie	LPL (Level of previous learning)	60-item timed tests for Grades 5 and 11 contained two subsections: verbal and quantitative.	timed tests for Grades 5 and The scores on the verbal and quan. The LPL instrument can be conined two subsections: verbal titative sections of the test were sidered to reflect the schievement ntitative.	The LPL instrument can be considered to reflect the achievement level of the students at the time of testing.
	ATTEND (Attendance)	The sample student reported the number of days he was absent during the past school year.	5 = None 4 = 1.5 days 3 = 6-10 days 2 = 11-15 days 1 = 16 or more days	A higher value on this index represents a greater degree of student attendance within the school.

<sup>\*</sup> For secondary schools only.

#### Percentile Distributions of Condition Variables

How do schools in the Commonwealth distribute themselves on these indicators of school, staff and community characteristics? To answer this question a percentile distribution was constructed for each of the condition variables derived from the Phase II data. The unit of analysis for these distributions was the school mean.

Each percentile distribution is a ranking of school mean scores which is divided into 100 equal parts. Each part has an equal number—one per cent—of the total number of school scores. A "percentile" can be described as a point on this 100-point scale which gives the per cent of cases that fall below that particular point.

Tables 4, 5 and 6 display distributions constructed from the grade 5 condition variable data. Grade 11 percentile distributions are presented in Tables 7, 8 and 9.

The column at the extreme left of each table displays the percentile ranks in five-point intervals. The numbers in the main body of each table are the school scores that are equivalent to each of the listed percentile ranks.

The bottom of each table displays the mean and standard deviation of the statewide sample (i.e., 355 elementary and 73 secondary schools).

Caution must be used when interpreting these condition variable distributions. High percentile ranks on these indices do not necessarily indicate that the school of interest has more favorable conditions with which to work. Indeed, many of the indices show negative relationships with achievement on the educational goal instruments as will be shown in Section 6 of the Phase II report.



19

	1	*	***		88	8	92	8	7.5	5	8	9	8	8	\$	<b>ç</b>	93	30	25	50	1.5	2	<u>"</u>	1		
			HOUSING		4.33	4.18	4.04	3.93	3.63	3.74	3.65	3.54	3.43	3.33	3.22	3.11	3.00	2.69	2.71	2.53	2.37	2.21	1.98		3.25	0.73
918		PHIC	INTERAC		1.83	1.74	1.66	95	1.54	64.	1.43	1.42	1.39	1.37	1.35	1.33	1.30	1.28	1.25	1.22	91.1	•	1.06		1.40	0.22
ELEMENTARY SCHOOLS		OEMOGRA PHIC	LOCATION		5.92	4.96	4.65	4.34	3.58	3.14	2.80	2.50	2.29	2.08	1.87	1.68	1.57	1.47	1.36	1.26	1.15	1.05	1.00		2.56	1.72
			ENGOLL		158	*1.4	592	531	473	429	387	345	308	274	238	211	183	174	155	137	9::	88	38		343	244
COMMUNITY INDICES FOR			EPFOAT		31.58	29.08	27.54	26.75	25.96	25.21	24.48	23.76	23.29	25.92	22.55	22.18	21.81	21.37	20.79	20.21	19.63	18.69	17.70		23.55	4.00
O COMBUNIT	CHARACTERISTICS	FINANCIAL RESOURCE	INSEXADM		206	466	0 7 7	429	914	0;	402	394	388	383	37.7	372	367	361	354	348	341	331	320		392	53
SCHOOL AN	CHAR	FINAN	SUBSION		348	326	308	300	292	284	276	268	560	252	243	238	227	219	207	192	178	156	136		246	62
DISTRIBUTION OF SCHOOL AND			LIBRARY		19.4	4.49	4.36	4.24	4.11	3.98	3.85	3.71	3.56	3.42	3.28	3.18	3.02	2.92	2.82	2.72	7.60	2.38	2.08		3.43	0.79
ENTILE DIST		RESOURCE	IMOVATE		46.22	42.89	40.13	30.75	37.38	36.08	34.99	33.94	32.89	31.86	30.88	29.90	28.91	27.88	26.62	25.37	24.11	21.38	16.67		32.16	8.07
9 8 8 C 8		PROGRAM R	SCOICS		28.64	18.59	16.54	14.49	12.44	11.06	10.39	9.72	9.08	9.38	27.7	7.08	6.39	5.72	5.05	4.39	3.72	3.08	0.93		11.38	16.84
			STAPPP		.052	640.	.046	.045	.043	.042	150	.040	660.	.038	. 037	960.	.036	.035	.034	.033	.033	.032	.029		0.039	0.007
		3	1	I I	6	06	80	00	75	70	NOI	71U1	TIAIT S	sia	יף ורב	\$ ENT	E R CI	9	25	50	5.	°	· ·	1 2	STATE	STATE STANDARD DEVIATION



Table 5

	-second	\$	1	Year.	9.8	<b>6</b>	88	2	75	0,	65	9	SS	00	\$	Ç	35	õ	25	70	<u>.</u>	2	٧.	į		
			OISCREP	,	6.26	19.6	5.29	4.97	4.80	4.65	4.49	4.33	4.17	4.04	3.91	3.78	3.65	3.52	3.37	3.17	2.98	2.78	2.38		4.19	1.52
			TCAREER		9.75	9.34	9.02	8.84	B.67	8.49	8.32	8.12	7.86	7.60	7.34	7.02	69.9	6.36	9.05	5.73	5.38	4.91	3.81	•	7.30	1.79
3013		DINAL	RECIDEA		2.90	2.53	2.27	2.08	1.93	1.80	1.68	1.61	1.55	1.49	1.42	1.36	1.31	1.26	1.22	B:-	1.13	1.09	9.		1.69	0.69
RT SCHO		ATTITUDINAL	REACTL		6.33	5.39	4.90	÷	4.03	3.68	3.40	3.12	2.91	2.73	2,56	2.38	2.19	1.94	1.69	<del>*</del>	1.23	1.02	0.1		3.03	1.60
E H C H T A			TCLPRAC		46.74	45.92	45,10	44.64	44.19	43.73	43.28	42.81	42.34	41.87	<b>1.1</b>	40.95	40.50	40.04	39.37	38.64	37.82	36.87	35.50		41.67	3.44
FOR ELEMENTART SCHOOLS			TSATISF		25.90	24.81	23.98	23.52	23.07	22.67	22.38	22.10	21.81	21.52	21.17	20.78	20.40	20.00	19.53	19.06	18.54	17.87	16.85		21.41	2.70
10108			SALARY *		97.56	9364	6016	9568	8817	8739	86.58	8278	8118	8426	8355	8285	8214	8143	8040	7936	7832	7670	7478		8488	693
OF INSTRUCTIONAL STAFF INDICES	7108	U	TPPOS		7.34	09.9	6.05	5.77	5.50	5.27	5.11	4.95	4.79	1.63	4.44	4.25	4.06	3.87	3.59	3.31	3.00	2.65	2.17		4.60	1.48
OMAL S	CHARACTERISTICS	DEMDGRAPHIC	TEXPER		27.90	24.12	22.23	20.80	19.54	18.32	17.31	16.30	15.29	14.52	13.74	12.96	13.10	1.39	10.59	9.79	8.99	7.64	6.26		15.33	6.40
TRUCTI	CHARA	DE	TSEX		2.00	2.00	2.00	1.99	1.97	1.93	1.90	1.88	98.	1.65	1.83	<b>8</b> .	1.79	1.71	1.75	1.72	1.69	1.65	1.53		1.82	0.17
		-	TAGE		9.10	7.31	6.75	6.40	6.13	5.86	5.57	81.8	4.79	4.50	4.25	<b>4</b> .00	3.75	3.43	3.10	2.77	2.4	2.04	1.55		4.68	7.7
CENTILE DISTRIBUTION			TSTABL		5.06	5.01	4.96	1.9.1	4.73	19.7	4.60	4.56	4.53	4.49	<del>*</del> + · ·	4.39	4.34	4.29	4.02	3.96	3.90	3.84	3.7 (		4.46	0.43
DISTR			TEDUC		4.78	4.59	<del>1.4</del>	<u>-</u>	<del>*</del>	£.5	4.07	4.02	3.97	3.92	3.86	3.76	3.67	3.57	3.49	3.40	3.31	3.17	2.96		3.67	90.0
ENTILE		BACKGROUND	TCOLLEGE		3.00	2:93	2.65	2.59	2.53	.2.47	2.41	2.36	2.31	2.25	•••	1.95	•	:	-		1.73	1.62	1.47		2.23	0.45
		BACKG	TLOCALE		5.14	5.06	4.7	4.74	4.68	3.	4.60	•	4.35	4.30	4.25	4.20	4.15	<del>-</del>	4.06	4.02	3.98	3.93	3.59		4.36	0.43
•			TFOCC	•	6.36	5.82	5.46	5.14		4.62	÷.	4.26	4.07	3.89	3.71	3.53	3.36	3.19	3.02	2.85	2.64	2.32	1.96		€.0	1.34
			THEDUC		S. I &	<b>.</b>	4.52	4.36	4.24	4.12	₹.00	3.63	3.66	3.4	3.32	3.16	3.02	15.5	2.81	2.70	3.60	2.24	<u></u>		3.52	0.93
DE04-707 (11/79)	į	4	1	į	\$	ş	\$	2	7.5	6	5	3	S	8	Ş	\$	SE	ě	25	20	<u>.</u>	2	'n	ł	STATE	STATE STANDAND DEVIATION
ő		_									1011		-17	• • • •			, e s	•							"]	20

\*An \$850 adjustment was made to Phase II SALARY figures to up-date norms in line with new state minimum.



Percent (1/1)											
	1000				CHARACTERISTICS	RISTICS					
1 8			BACKGROUND					DEMOGRAPHIC	HIC		ş
- 1		1	# C	FAMSES	#E0UC	FEDUC	ž	RACE	LPL	ATTENO	1
₹	$\downarrow$										Above
	_	. **	50.02	63.21	4.52	5.03	1.658	5.04	38.65	4.31	95
- S	46.57	49.27	43.03	55.51	4.29	4.63	1.596	5.02	37.88	4.24	06
n 0		45. 53	38.27	50.65	4.18	4.35	1.577	5.01	37.11	4.16	.s 8
n G			36.15	47.72	4.07	4.14	1.561	5.00	36.49	4.11	80
-	37.05		34.03	44.87	4.00	4.07	1.545	4.98	35.88	4.06	7.5
		39.23	32.03	42.77	3.95	4.00	1.532	4.97	35.28	4.01	0,
NOI		37.46	30.49	41.08	3.90	3.94	1.520	4.96	34.89	3.98	65
		35.71	28.95	39.39	3.84	3.87	1.509	4.94	34.50	3.94	9
	:	33.96	27.41	37.70	3.79	3.80	1.498	4.93	34:12	3.91	55
		32.19	25.83	36.01	3.74	3.74	1.486	4.92	33.73	3.87	20
	_	30.38	23.86	34.32	3.70	3.68	1.476	4.90	33.29	3.83	4 5
		28.57	21.89	32.62	3.65	3.62	1.465	4.89	32.78	3.79	9
		26.77	19.92	30.93	3.60	3.56	1.454	4.88	32.27	3.74	35
		25.08	17.98	29.26	3.56	3.50	1.443	4.86	31.75	3.69	30
25		23.38	16.04	27.60	3.51	3.43	1.430	4.85	31.23	3.64	25
		21.69	14.10	25.93	3.43	3.32	1.413	4.83	30.71	3.59	50
		19.58	11.50	24.26	3.33	3.20	1.396	4.74	30.19	3.53	2
 		16.94	8.46	21.13	3.23	3.09	1.372	4.63	29.09	3.38	2
		13.48	4.35	17.89	3.00	2.77	1.316	4.26	27.49	3.24	S
	Below										8
STATE MEAN	EAN 32.02	32.95	26.00	37.29	3.77	3.80	1.49	4.84	33.53	3.85	_
STATE STANDARD	10.76	12.21	12.66	13.15	0.54	0.71	0.10	0.42	3.47	0.33	_

  -							CHAR	CHARACTERISTIC	TICS			,				
1			PROGRAM	RESOURCE			FINANC	FINANCIAL RESOURCE	JACE			DEMOGRAPHIC	PHIC			1 4
: 1	STAFF	8,300	HEMOVATE	LIBRARY	COUNSEL	GUIDANCE	SUBSIDY	INSEXADM	EFFORT	EMBOLL	LOCATION	INTERRAC	HOUSING	HOTOHE	POSTGRAD	1
	.067	20.15	43.12	4.75	4.88	.0043	344	527	29.26	2533	6.10	1.98	4.26	99.99	80.74	9.5
ŝ	990	15.38	41.43	4.68	18.4	.0030	330	482	27.02	2185	5.40	1.95	4.12	99.48	69.73	90
50	.062	14.26	40.28	4.63	4.74	0600.	317	428	25.88	1664	8.03	1.92	3.98	98.63	64.21	85
8	090	13.14	39.14	4.60	4.67	6200.	308	420	24.89	1386	4.67	1.89	3.87	97.80	61.56	8
75	057	12.38	37.64	4.56	4.63	6200.	300	£13	24.50	1232	4.30	1.86	3.78	97.06	58.95	75
	058	11.66	38.92	4.53	4.61	.0028	292	406	24.19	1093	3.94	1.82	3.68	96.32	56.76	2
	.054	10.95	34.51	4.49	4.58	.0028	284	398	23.87	964	3.42	1.75	3.59	95.57	54.73	. 9
	.052	10.24	33.53	4.45	4.56	.0027	276	393	23.55	868	2.96	1.67	3.49	94.83	52.69	9
8	150.	. 9.74	32.55	14.4	4.54	.0027	268	386	23.24	832	2.11	1.51	3.39	93.74	50.77	55
\$	.051	9.23	31.57	4.38	4.52	.0026	529	303	25.92	765	2.58	1.32	3.30	92.56	49.22	S
. 4.5	080	6.73	30.43	4.34	4.50	.0021	251	379	22.59	669	2.38	1.22	3.16	91.38	47.66	£.
9	.049	8.22	29.16	.4.31	4.48	.0020	242	374	22.26	633	2.19	1.17	3.01	90.39	46.10	ę
. 33	.049	7.72	27.93	4.27	4.45	.0020	233	369	21.93	172	2.03	1.13	2.88	89.40	44.55	35
30	970	7.22	26.68	4.24	4.41	6100.	223	365	21.60	515	1.87	1.08	2.78	88.41	42.99	e 
28	.047	6.72	25.43	4.21	4.37	6100	213	356	21.27	459	1.7.1	1.04	2.68	87.17	*.:	25
50	.046	6.22	24.18	4.16	4.34	8100.	198	351	20.82	*0	1.54	1.00	2.59	85.86	39.88	20
5	.045	5.71	22.67	4.08	4.27	.0018	182	343	19.43	348	1.36	1.00	2.45	84.35	38.33	- 3
2	.044	5.21	20.95	3.90	4.17	7100.	150	336	18.21	292	1.12	1.00	2.32	82.37	36.77	<u>:</u>
<b>v</b>	. 140.	. 4.43	18.17	3.71	€.03	.0010	123	323	16.94	237	1.00	1.00	2.13	78.13	28.13	<b>S</b>
1																8
STATE	.053	10.27	31.16	4.34	4.48	.0026	249	396	22.88	974	3.03	1.44	3.26	91.42	51.13	_
STATE															ļ	



1	<b>! 1</b>	OISCREP	***	5.98 98	5.41 90	5.10 85	4.94 80	4.78 75	4.66 70	4.56 65	4.45 80	4.35 55	4.27 50	4.20 48	4.12 40	4.04	3.97 30	3.81 25	3.63 20	3.47 15	3.32 10	3.17	Potos	4.35	_
						_		_							_					_			$\dashv$	7.33	-
	.	TCAREER	<u>.                                    </u>	9.21	8.78	8.37	6.18	8.01	7.85	7.74	7.64	7.53	7.43	7.32	7:17	7.02	6.87	6.71	6.55	6.38	6.17	5.78	$\dashv$	┪	-
	ATTITUDINAL	RECIDEA		2.37	2.24	2.08	2.00	1.9	1.80	1.80	1.72	1.6	1.87	1.51	1.48	1.38	1.34	1.29	1.24	1.15	1.03	1.0	_	1.63	L
	ATTIT	REACTL	,	5.05	4.70	4.47	4.25	4.04	3.84	3.66	3.49	3.32	3.19	3.08	2.98	2.87	2.76	2.57	2.39	2.15	1.78	1.47		3.27	L
		TCLPRACT		42.29	41,42	40.65	40.14	39.72	39.30	38.80	38.52	38.13	37.80	37.53	37.25	36.98	36.71	36.26	35.75	35.16	34.39	33.53		37.91	
		TSATISF		23.23	22.27	21.74	21.49	21.23	20.97	20.75	20.53	20.31	20.10	19.92	19.74	19.55	18.37	19.09	18.71	18.29	17.71	17.09		20.12	
	·	SALANY		8888	9293	9187	9041	8925	9826	6727	9626	8540	8463	8386	8309	6233	8143	8043	7944	7846	7706	7552		8579	
10.5		8		6.30	6.02	5.80	5.60	5.42	5.25	5.13	5.01	4.89	4.78	4.68	4.59	4.50	19.4	4.27	<b>4</b> .11	3.95	3.69	3.38		4.81	
ERISTI	DEMOGRAPHIC	TEXPER		18.40	16.59	15.55	14.85	14.16	13.65	13.30	12.96	12.61	12.27	11.86	11.42	10.97	10.53	9.75	9.86	8.27	7.76	7.24		12.13	
CHARACTERIST	DEMO	TSEX		1.564	1.535	1.482	1.462	1.443	1.428	1.417	1.406	1.395	1.384	1.368	1.352	1.338	1.324	1.311	1.298	1.284	1.264	1.245		1.386	
0		TAGE		6.56	5.49	5.12	4.92	4.72	4.61	4.51	4.40	4.29	4.18	4.02	3.85	3.68	3.54	3.42	3.30	3.18	3.06	2.23		4.17	
		TSTABL		4.91	4.77	4.67	4.63	4.59	4.55	4.53	4.51	4.48	4.46	****	4.39	4.33	4.28	4.23	4.18	4.13	€0.4	3.93		4.42	
1		TEOUC		5.41	5.21	5.07	4.97	4.88	4.79	4.70	4.64	19.4	4.57	4.54	4.50	4.48	4.42	4.37	4.33	4.29	4.22	4.15		4.67	
	ONNO	TCOLLECE		2.84	2,76	5.69	2,66	2.62	2.56	2.55	2.52	2.48	2.46	2.42	2.37	2.33	2.30	2.27	2.24	2.20	2.14	2.07		2.45	
	BACKGR	TUCCALE		4.84	4.74	4.63	4.60	4.56	4.53	4.49	4.45	4.4	4.36	4.32	4.27	4.22	4.18	4.14	4.09	4.04	3.97	3.82	•	4.35	
		1F0CC		5.84	8.48	5.16	5.01	4.85	4.70	4.60	4.51	.4.4	4.32	4.22	4.06	19.6	3.75	3.58	3.41	3.10	2.65	2.51		4.22	
		TEDIC		7.46	4.31	4.20	4.07	3.84	3.00	3.84	3.60	3.76	3.72	9.6	3.62	68.6		3.34	3.24	. E	3.05	2.87		3.66	
1	ş	1	1	8	. 6	50	0	7.5	92	8	0	80 80	90		Ç	ř	96	25	20	:	2	, so	ł	STATE	

\* An \$850 adjustment was made to Phase II SALARY figures to up-date norms in line with new state minimum.

Percent	•	¥ .	Above	98	06	85	90	7.5	0,	9	09	55	20	\$ \$	04	38	30	52	20	51.	0	υ	8	1	
		ATTEND		3.81	3.75	3.69	3.64	3.61	3.57	3.52	3.47	3.42	3.39	3.37	3.34	3.31	3.28	3.24	3.21	3.17	3.11	3.06		3.42	0.25
	APHIC	LPL		39.98	38.52	37,52	36.99	36.46	35.92	35.39	34.86	34.39	34.11	33.83	33.55	33.27	32.99	32.62	32.13	31.64	30.87	28.92		34.45	3.21
	DEMOGRAPHIC	RACE		5.01	5.00	4.98	4.97	4.96	4.95	4.94	4.93	4.92	4.90	4.89	4.88	4.87	4.86	4.85	4.83	4.74	4.60	4.38		4.83	0.37
		sex		1.635	1.596	1.577	1.567	1.556	1.546	1.536	1.525	1.518	1.513	1.508	1.503	1.498	1,493	1.486	1.469	1.454	1.439	1,423		1.52	90.0
		OCEXPECT		65.76	63.77	62.23	60.75	29.60	58.44	57.29	55.93	54.55	53.18	51.92	99.09	49.44	48.45	47.46	46.47	45.32	43.78	42.24		53.35	7.59
CS		OCDESIRE		66.37	64.10	62.18	61.45	60.73	60.02	59.30	58.38	57.34	56.30	55.12	53.84	52.61	51.65	50.69	49.74	48.51	47.24	45.37		55.87	6.29
CHARACTERISTICS	ATTITUDINAL	VALUES		4.23	4.18	4.10	4.07	4.05	4.02	4.00	3.97	3.95	3.93	3.92	3.90	3.89	3.87	3.85	3.81	3.76	3.72	3,66		3.95	0.16
CHARA	¥	MORESG		3.91	3.76	3.62	3.54	3.52	3.50	3.48	3.46	3.43	3.41	3.38	3.36	3.33	3.31	3.28	3.25	3.22	3.18	3.11		3.43	0.24
		MORESB		4.00	3.78	3.65	3.56	3.53	3.50	3.47	3.44	3.41	3.38	3.35	3.32	3.29	3.26	3.22	3.19	3.16	3.12	3.00		3,40	0.29
		FAMSES		72.36	68.44	64.11	58.90	53.09	51.13	49.17	47.26	46.02	44.79	43.55	42.31	41.08	39.56	38.00	36.43	34.87	32.53	29.92		47.32	12.86
	GUND	РСТНИ		48.77	44.78	41.54	39.16	37.14	35.64	34.63	33.61	32.60	31.50	29.88	28.26	26.83	25.67	24.51	23.35	21.93	20.31	18.69		31.73	8.88
	BACKGROUND	JOQ.		53.76	50.94	47.62	45.67	44.29	42.90	41.56	40.29	39.01	37.73	35.96	34.11	32.56	31,45	30.34	29.24	27.91	26.07	24.22		37.55	9.11
		FOCC		59.15	53.21	50.03	46.58	42.88	40.76	38.64	37.20	36.19	35.19	34.19	33.18	32.20	31,25	30.29	29.34	28.39	27.43	24.44		37.80	10.45
05.111.100	- F	1	Above	95	06	88	90	7.5	70	9	- 09	JAT.	8	45			30	25	20.	15	0	· w	Beton	STATE	STATE

#### Intercorrelation among Indices

Many of the condition variables employed in the Pennsylvania Assessment model tend to be highly related to one another. The interrelationships among them can be examined using Tables 10 and 11. Table 10 displays the intercorrelation matrix for the 39 condition variables collected from 355 elementary schools. Table 11 gives the intercorrelation matrix for the 45 condition variables collected from 73 secondary schools.

Section 5 is one part of a seven-part report to the schools on the assessment information gathered in the fall of 1969. Specifically, this section has been restricted to (1) describing the methods used to collect and transform this information into meaningful scales, (2) describing how Commonwealth schools distribute themselves on these scales and (3) showing the interrelationships among these scales.

The overriding purpose for measuring surrounding environmental conditions was to take this information into account when examining school outcomes in the ten student performance goal areas.

Section 6 of Phase II Findings will describe the interrelationships between these condition variables and school outcome measures. The implications of the findings given here and in Section 6 will be discussed in Section 7 of Phase II Findings.



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CORRELATION MATRIX FOR 39 CONDITION VARIABLES: GRADE 5 Table 10

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	17	252126123223242200024	17
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	15	0.000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	15
	14	425 100 100 100 100 100 100 100 10	14
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	Name	LPL FEDUC	Westerle



## Table 10 (continued)

Number   Number   21   22   23   24   25   26   27   28   29   30   31   32   35   36   37   38
C   C   C   C   C   C   C   C   C   C

NOTE—All correlation coefficients have been rounded to two decimal places and the leading decimal points have been omitted.

r ≥ 10 is significant at the .05 level

r ≥ 14 is significant at the .01 level

## CORRELATION MATRIX FOR 45 CONDITION VARIABLES: GRADE 11 Table 11

NOTE—All correlation coefficients have been rounded to two decimal places and the leading decimal points have been omitted.

r > 28 is significant at the .05 level

r > 80 is significant at the .01 level

## Table 11 (continued)

		I								İ														
Name	Namber	2	33	8	22	82	8	8	u	25	2	2	23	36	23	88	2	3	17	3	3	12		Number
LIPL BEEN LOCATION BEEN LOCATION LOCATION LOCATION LOCATION RACE RACE RACE RACE ROCC WORESB WORESB WORESB WORESB WORESB TAGE PCTWW FAMSES TAGE TAGE TENCE TE		22424242828888888888	104213333333333	28412858888888488	1138 1138 1138 1138 1138 1138 1138 1138	× × × × × × × × × × × × × × × × × × ×		25 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	458488258818848	2824 <b>32</b> 524288	252882444121	25 ± 25 ± 25 ± 25 ± 25 ± 25 ± 25 ± 25 ±	\$25.24.24.25.25.25.25.25.25.25.25.25.25.25.25.25.	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	222144822	54400000 2000000000000000000000000000000	822464	92-12-98		88 41 - 41 - 41 - 41 - 41 - 41 - 41 - 41				
Variable	Number	7	83	<b>5</b> 8	27	28	29	30	31	32	ä	7	25	88	2	96	8	9		1	1	ŀ		
				;	;	;   		1	-	,	3							<b>∓</b>		42 43	<b>‡</b>	45	_	

NOTE—All correlation coefficients have been rounded to two decimal places and the leading decimal points have been omitted.

r >= 28 is significant at the .05 level

r >= 30 is significant at the .01 level

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